(b) labeling molecules in a second sample with a second radioactive isotope that is different from said first radioactive isotope;

(c) mixing said first sample and said second sample into a mixture;

(d) separating said mixture into a plurality of groups of molecules; and,

(e) using the difference in half-life between said first radioactive isotope and said second radioactive isotope as a means to selectively quantify each isotope in each group of molecules.

Claim 53 and claim 54 (canceled)

Claim 55. (currently amended) A method of analysis comprising the steps of:

(a) labeling molecules in a first sample with a first radioactive isotope;

(b) labeling molecules in a second sample with a second radioactive isotope that is different from said first radioactive isotope;

(c) mixing said first sample and said second sample into a mixture;

(d) separating said mixture into a plurality of groups of molecules;

(e) selectively quantifying each isotope from each group of molecules wherein a screen is used to selectively block a higher proportion of radiation from one isotope.

Claim 56-78 (cancelled)

Claim 79-92 (new)